

**ABSTRACT OF THE DISCLOSURE**

Fluid bearings, vacuum chucks and methods for producing these devices.

One example of a method for forming a fluid bearing includes forming a plate having a face surface and a bonding surface, coupling a first side of a body to the bonding

5 surface, placing the face surface of the plate against a predetermined surface, and generating a pressure difference to conform the face surface to the predetermined

surface. One example of a fluid bearing of the invention includes a plate support and a flexible bearing plate having a bonding surface which is attached to the plate support

with an adhesive which is flexible before hardening. The flexible bearing plate

10 conforms to a predetermined surface during a portion of the time that the adhesive hardens. Examples of vacuum chucks, and methods for forming vacuum chucks, and other aspects of the invention are described.